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Team Name: Student Group - 1

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Target Board: LPC 1769

workspace - LED_ON_SWITCH_ASSIGNMENT/src/LED_ON_SWITCH_ASSIGNMENT.c - MCUXpresso IDE

File Edit Source Refactor Navigate Search Project ConfigTools Run RTOS Analysis Window Help

LED_ON_SWITCH_ASSIGNMENT <Debug>

- Project References
- Project Settings
- Binaries
- Includes
- src
 - cr_startup_lpc175x_6x.c
 - crp.c
 - LED_ON_SWITCH_ASSIGNMENT.c
- Debug
 - LED_ON_SWITCH_ASSIGNMENT LinkServer Debug
- lpc_board_map_lpcxpresso_1759
- lpc_chip_175x_6x
 - LPC1759_GPIO
- Project References
- Project Settings
- Binaries

```
97 int main(void)
98 {
99
100     // Force the counter to be placed into memory
101     //volatile static int i = 0 ;
102     uint32_t switchStatus;
103     uint32_t switchPinNumber = 13;
104
105     //LPC_PINCON->PINMODE4 = 0x08000000;
106     //Set pin 0.21 as output
107     GPIOInitOut(0,21);
108     //Set pin 2.13 as input
109     GPIOInitInput(2,13);
110
111     while(1)
112     {
113         //Get the status of the switch
114         switchStatus = (LPC_GPIO2->FIOPIN >> switchPinNumber) & 0x01;
115     }
```

Outline Global Variables

- LPC17xx.h
- cr_section_macros.h
- stdio.h
- GPIOInitOut(uint8_t, uint32_t) : void
- GPIOInitInput(uint8_t, uint32_t) : void
- setGPIO(uint8_t, uint32_t) : void
- clearGPIO(uint8_t, uint32_t) : void
- main(void) : int

Quickstart... Variables Breakpoint...

Build your project

- Build
- Clean

Debug your project

- Debug
- Terminate, Build and Debug

Miscellaneous

CDT Build Console (LED_ON_SWITCH_ASSIGNMENT)

Performing post-build steps

arm-none-eabi-size "LED_ON_SWITCH_ASSIGNMENT.axf"; # arm-none-eabi-size

text	data	bss	dec	hex	filename
11464	0	492	11956	2eb4	LED_ON_SWITCH_ASSIGNMENT.axf

13:46:15 Build Finished. 0 errors, 0 warnings. (took 402ms)

Memory Heap and Stack Usage

Monitors

TargetDownload: size=11464, address=0x00000170, msg=, rate=145336

NXP LPC1759 (LED_ON_SWITCH_ASSIGNMENT)